

FIG. 1

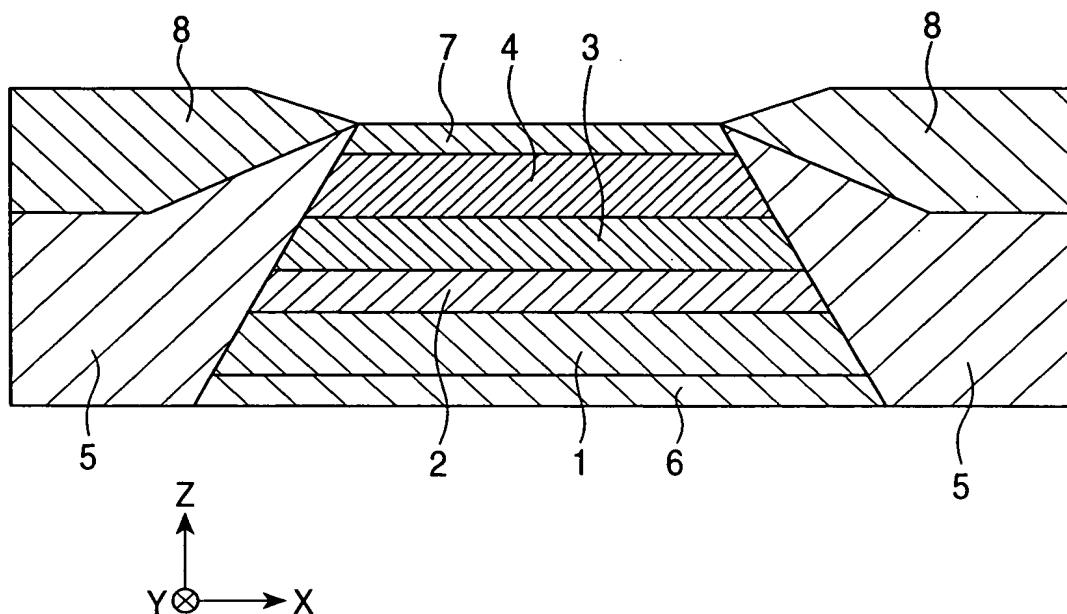


FIG. 2

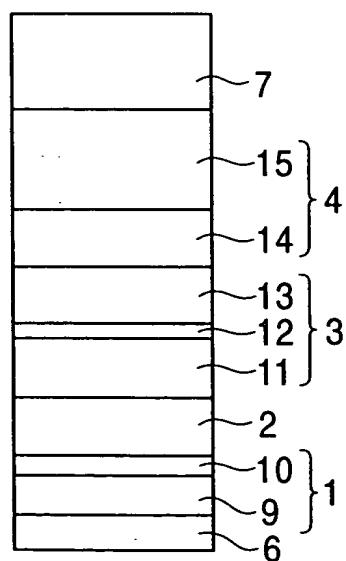
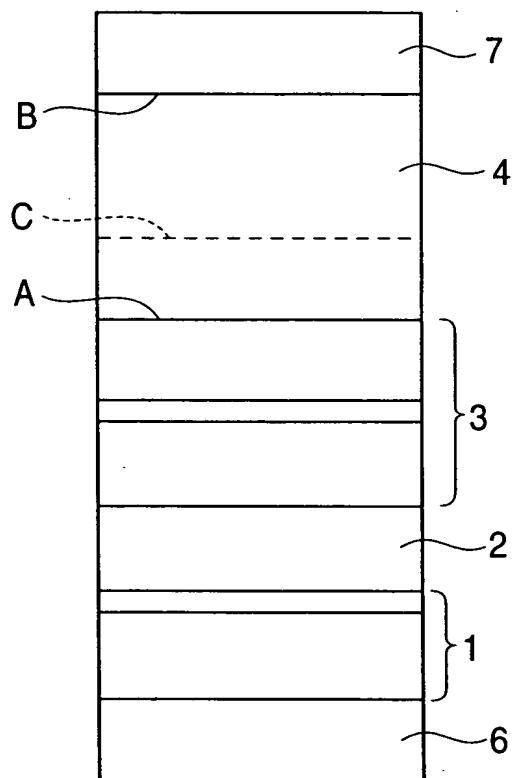


FIG. 3



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FIG. 4

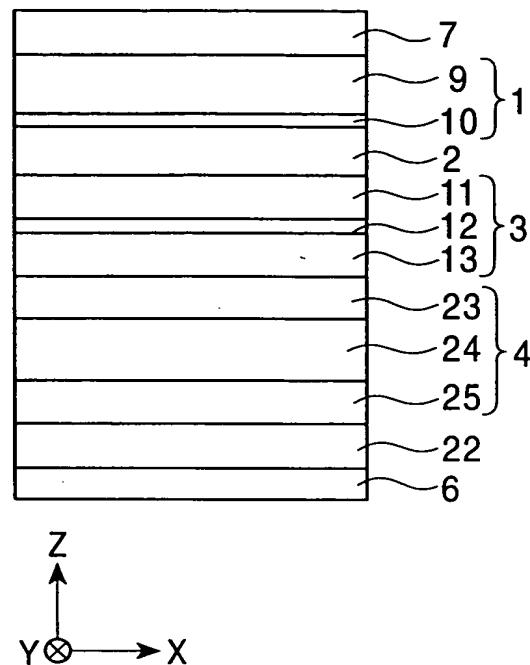


FIG. 5

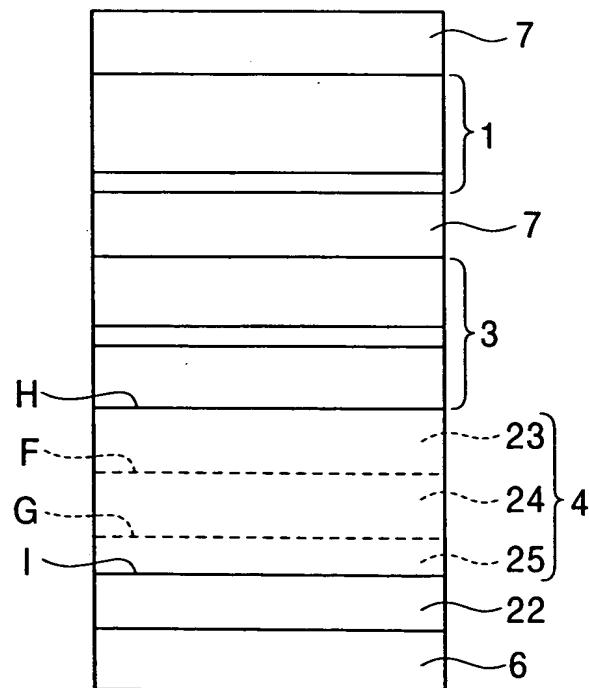


FIG. 6

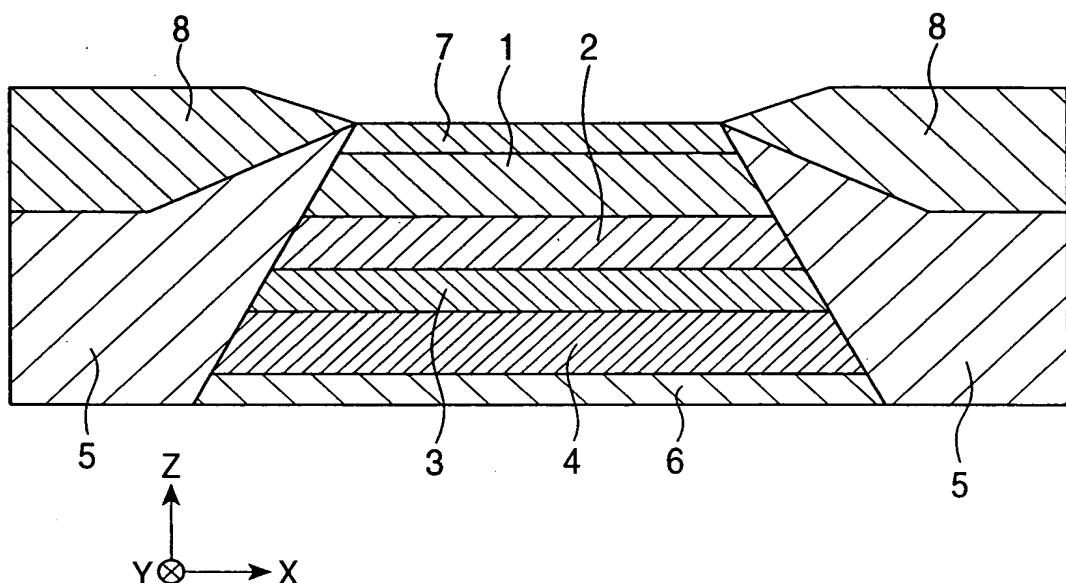
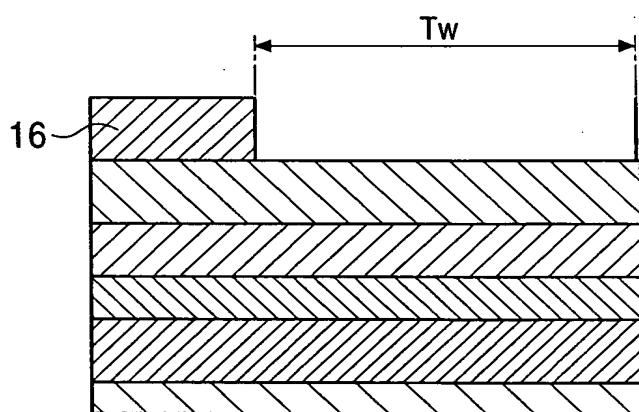


FIG. 7



exchange bias layer
free mag layer
intermediate layer (non-mag)
pinned magnetic layer
anti-ferromagnetic layer

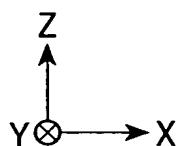


FIG. 8

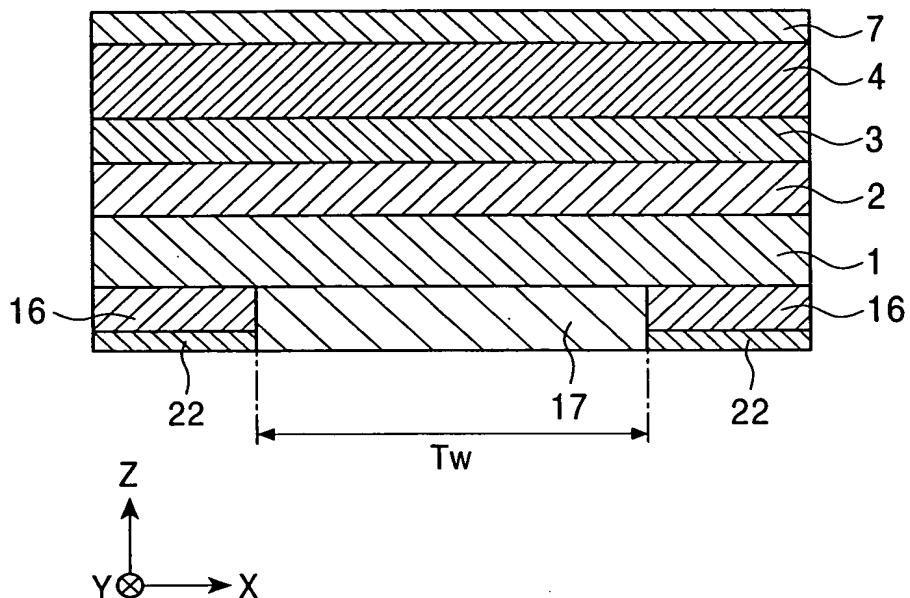
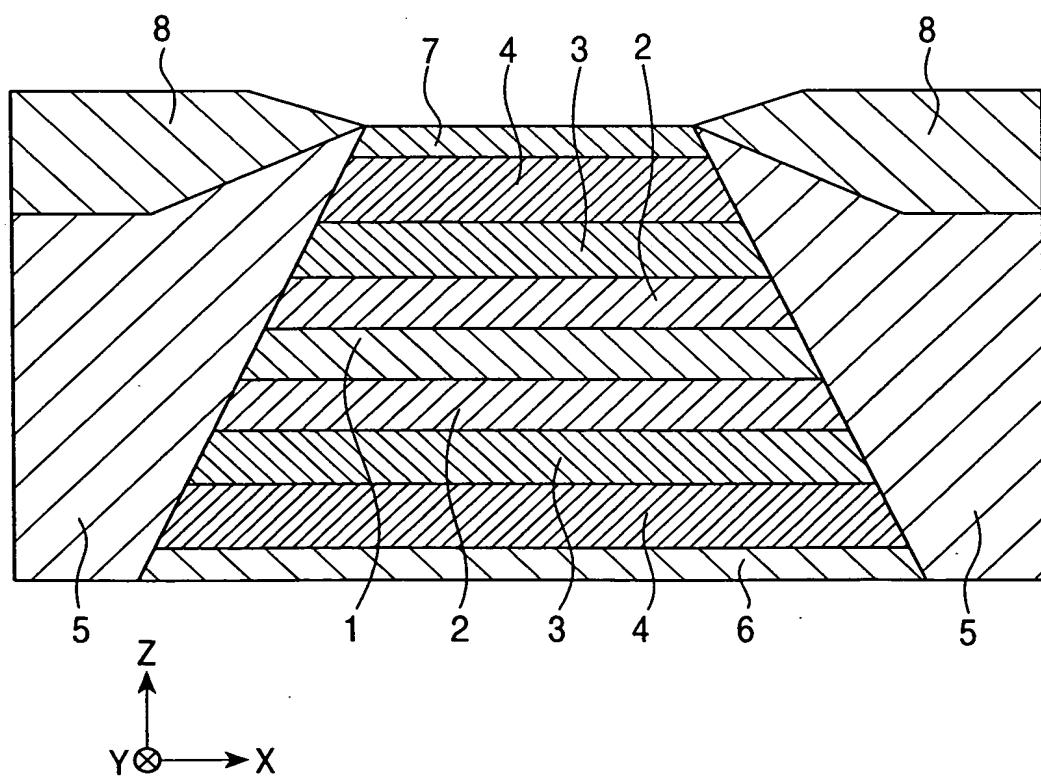


FIG. 9



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FIG. 10

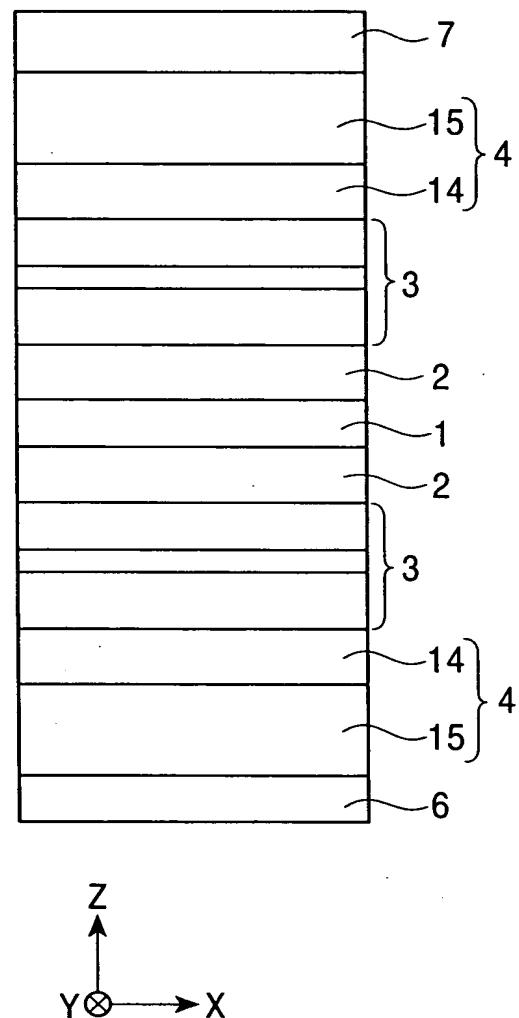


FIG. 11

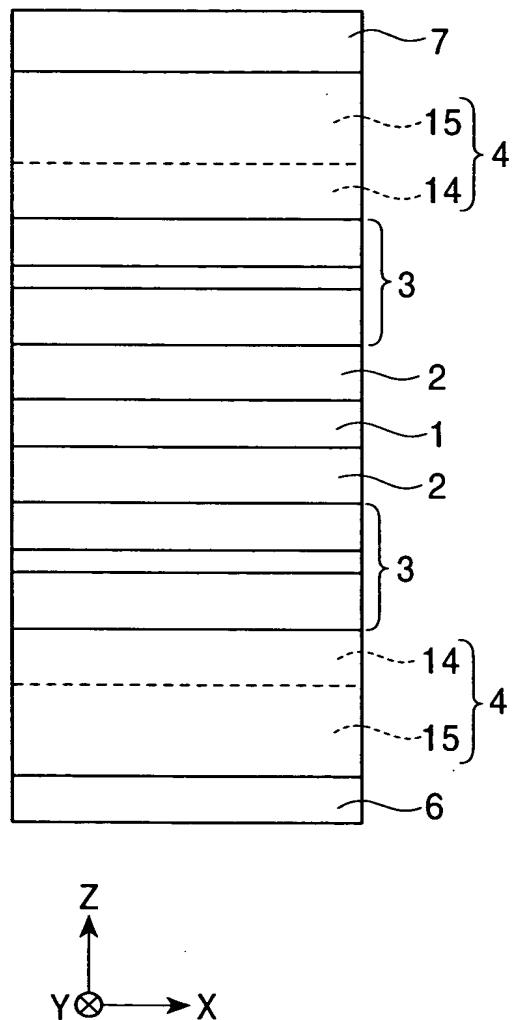
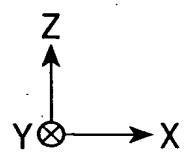
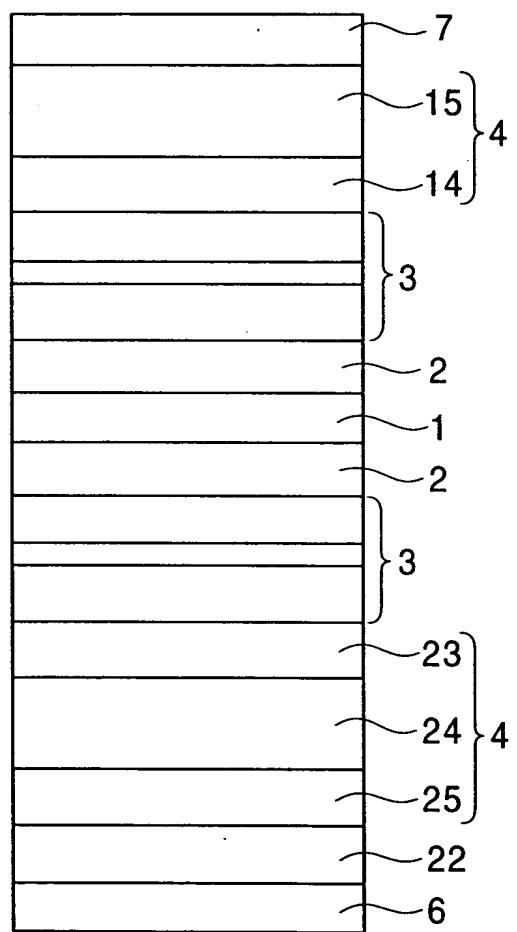
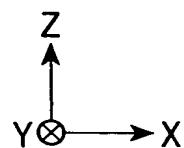
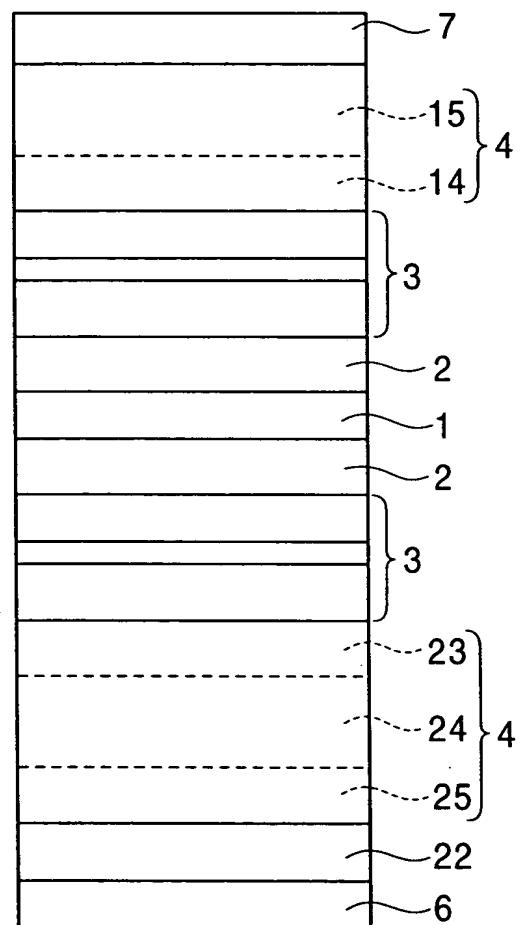


FIG. 12



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FIG. 13



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FIG. 14

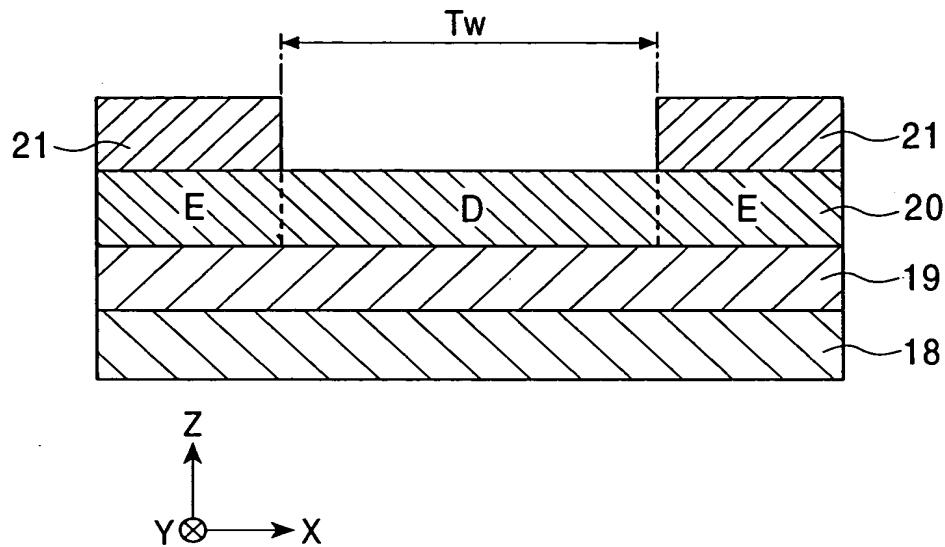
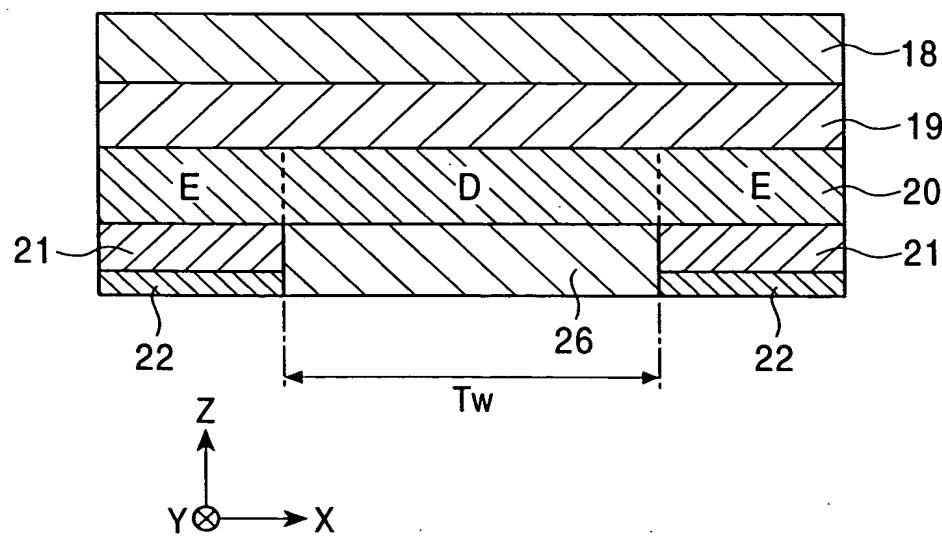


FIG. 15



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FIG. 16

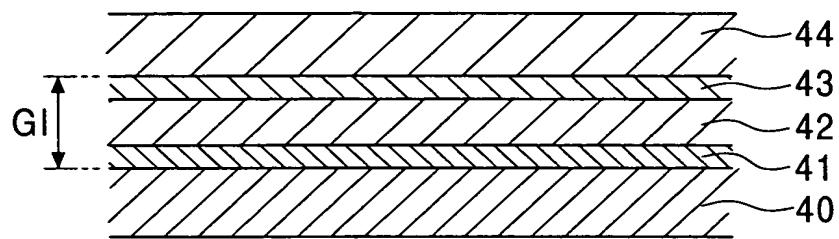


FIG. 17

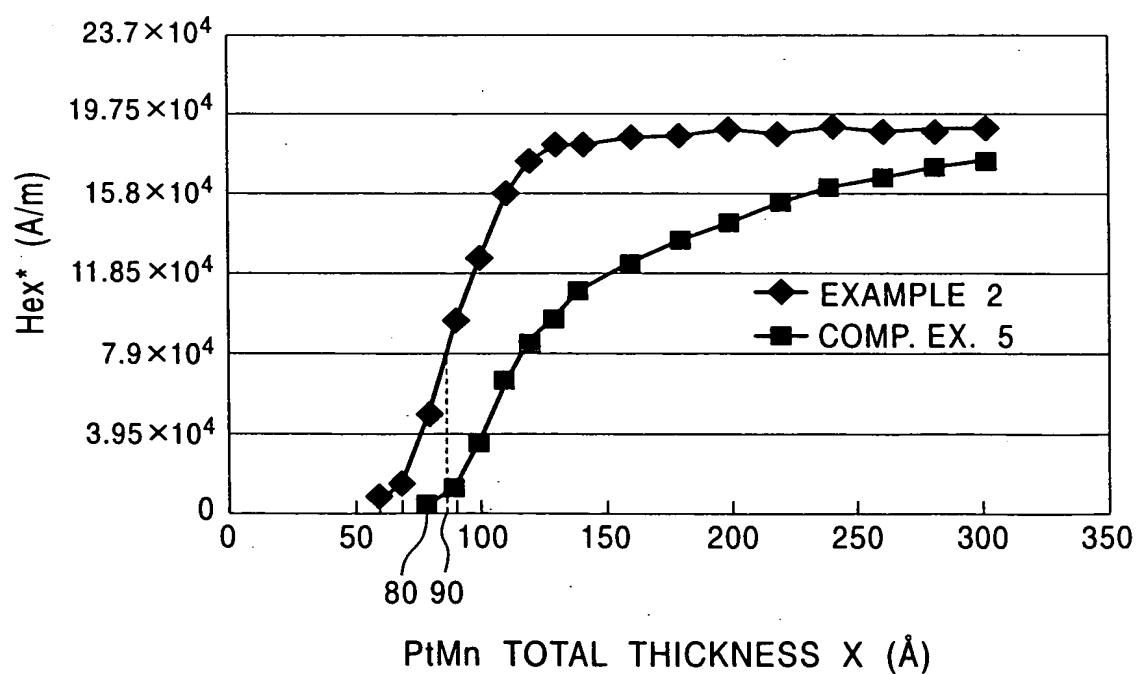


FIG. 18

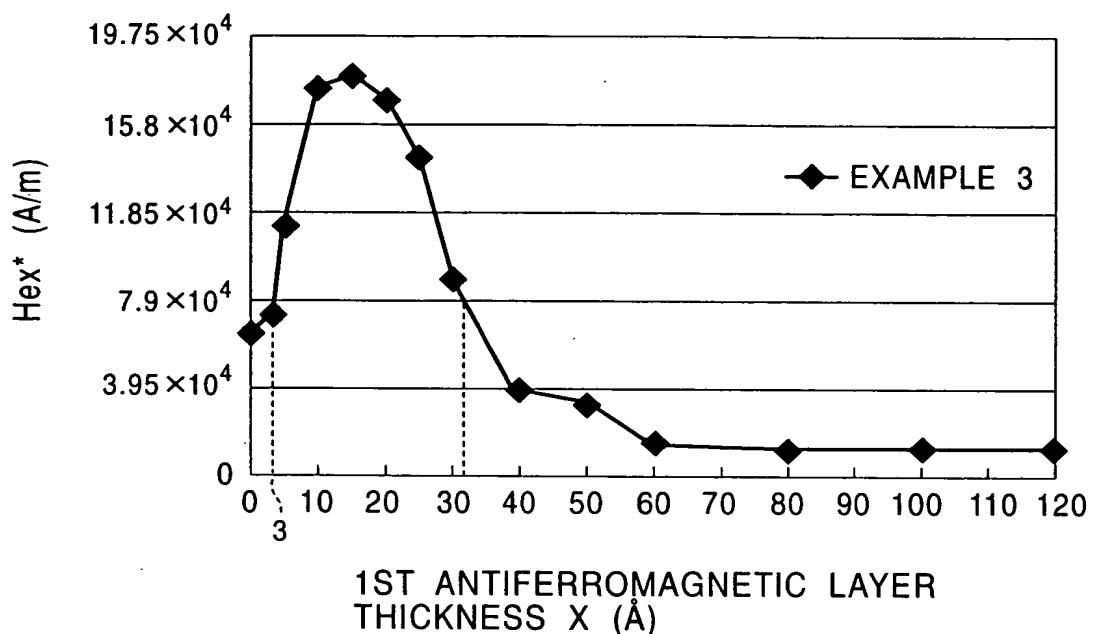
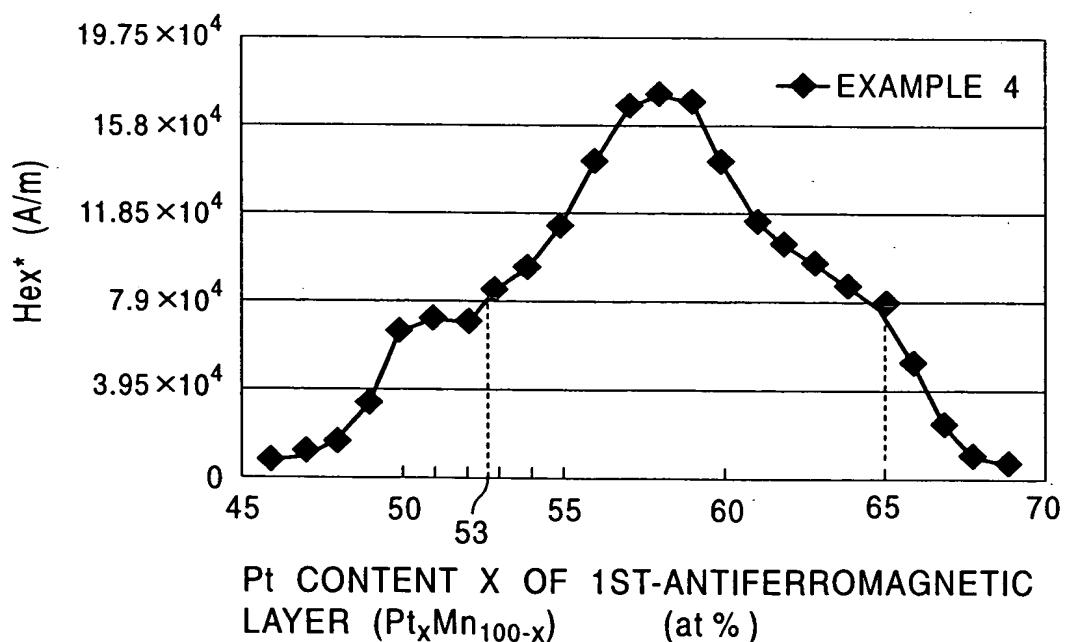


FIG. 19



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FIG. 20
PRIOR ART

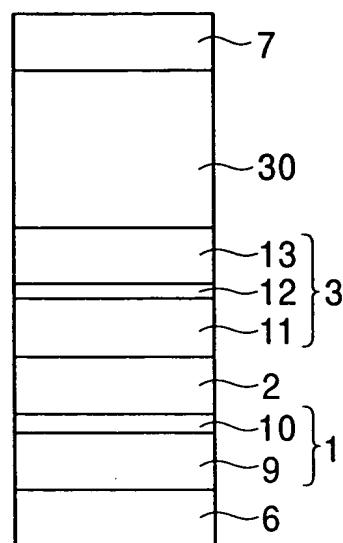


FIG. 21
PRIOR ART

